**Chickpea - 1**

1. **Crop :-** Chickpea
2. **Farm :-** KVK, Farm
3. **Crop Duration :-** 3.5 Months
4. **Date of sowing :-** 15-10-2022
5. **Expected Yield: -** 10q/acre.
6. **Week wise factors affecting on crop growth & Yield** :-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **15-Oct-2022 To 12-Nov-2022** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | 105 mm | - | - | - |
| High Temperature & Low Humidity | 31.4oC & 68% | 30.8oC & 44% | 30.4oC & 55% | 31.5oC & 58% |
| Cold Night | 20.5oC & 100% | 14.2oC & 88% | 14.2oC & 85% | 14.1oC & 75% |
| High Photosynthetic Light (In Lux) | 25000 | 25000 | 28000 | 28000 |
| Soil pH | 8.1 | 8.1 | 8.1 | 8.1 |
| Soil Moisture | 90% | 80% | 65% | 90% |
| Soil Temperature | Low | Low | Low | Low |
| Pest (Nil) | - | - | - | - |
| Disease (wilting) | - | - | - | 10% |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | Medium | Medium | Medium |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **13-Nov-2022 To 10-Dec-2022** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 30.5oC & 60% | 30oC & 58% | 31.4oC & 52% | 31.4oC & 54% |
| Cold Night | 14.4oC & 85% | 16.8oC & 78% | 15.4oC & 87% | 15.2oC & 88% |
| High Photosynthetic Light (In Lux) | 30000 | 30000 | 32000 | 30000 |
| Soil pH | 8.1 | 8.1 | 8.1 | 8.1 |
| Soil Moisture | 80% | 70% | 65% | 90% |
| Soil Temperature | Medium | Medium | Medium | Medium |
| Pest (nil) | Nil | Nil | Nil | Nil |
| Disease (wilting) | 10 % | - | - | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | Medium | Medium | Medium |
| Fertilizers used per acre | - | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **11-Dec-2022 To 07-Jan-2023** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 29.2oC & 68% | 31.5oC & 45% | 32.5oC & 58.5% | 31.2oC & 64% |
| Cold Night | 18.4oC & 91% | 12.8oC & 85% | 14.8oC & 85% | 15.7oC & 87% |
| High Photosynthetic Light (In Lux) | 32000 | 33000 | 33000 | 34000 |
| Soil pH | 8.1 | 8.1 | 8.1 | 8.1 |
| Soil Moisture | 85% | 70% | 65% | 90% |
| Soil Temperature | Medium | low | Medium | Medium |
| Pest (pod borer ) | Pod borer | Pod borer | Pod borer | Pod borer |
| Disease (wilting) | - | - | More | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | High | High | High |
| Fertilizers used per acre | Foliar spray of 13:00:45 @ 1% | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **08-Jan-2023 To 28-Jan-2023** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 31.5oC & 58% | 32.4oC & 58% | 30.5oC & 66% |  |
| Cold Night | 9.8oC & 56.2% | 11.8oC & 87% | 14.5oC & 82% |  |
| High Photosynthetic Light (In Lux) | 33000 | 35000 | 35000 |  |
| Soil pH | 8.1 | 8.1 | 8.1 |  |
| Soil Moisture | 85% | 70% | 60% |  |
| Soil Temperature | low | low | low |  |
| Pest (pod borer) | Pod borer | - | - |  |
| Disease (rust) | - | - | - |  |
| Soil salinity | Alkaline | Alkaline | Alkaline |  |
| Method of irrigation | Flood | Flood | Flood |  |
| Drought risk for region | Medium | Medium | Medium |  |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - |  |
| Pesticides used per acre | - | - | - |  |
| Whether crop failed or not | NOT | NOT | NOT |  |

**Actual Yield – 9.5q/acre**

**Chickpea - 2**

1. **Crop :-** Chickpea
2. **Farm :-** KVK, Farm
3. **Crop Duration: -** 3. 5 Months
4. **Date of sowing :-** 05-11-2021
5. **Expected Yield: -** 10q/acre.
6. **Week wise factors affecting on crop growth & Yield** :-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **05-Nov-2021 To 02-Dec-2021** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | 15.2 | 21 | 58.6 |
| High Temperature & Low Humidity | 31.2oC & 58% | 30.9oC & 80% | 31.7oC & 65% | 28.8oC & 80% |
| Cold Night | 15.5oC & 75% | 21.2oC & 91% | 20.2oC & 90% | 16.1oC & 92% |
| High Photosynthetic Light (In Lux) | 25000 | 23000 | 23000 | 22000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 90% | 80% | 65% | 90% |
| Soil Temperature | medium | Medium | Medium | Medium |
| Pest (Nil) | - | - | - | - |
| Disease (wilting) | - | - | - | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | - | - | - | - |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **03-Dec-2021 To 31-Dec-2021** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 28.8oC & 62% | 28.5oC & 65% | 30.4oC & 65% | 30.4oC & 62% |
| Cold Night | 15.8oC & 91% | 15.5oC & 91% | 12.1oC & 85% | 14.2oC & 88% |
| High Photosynthetic Light (In Lux) | 30000 | 30000 | 32000 | 30000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 80% | 70% | 65% | 90% |
| Soil Temperature | Medium | Medium | Medium | Medium |
| Pest (nil) | Nil | Nil | Nil | Nil |
| Disease (wilting) | 20 % | - | - | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | Medium | Medium | Medium |
| Fertilizers used per acre | - | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **01-Jan-2022 To 28-Jan-2022** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 28.2oC & 52% | 28.2oC & 53% | 28.5oC & 66% | 26.2oC & 64% |
| Cold Night | 13.4oC & 90% | 13.5oC & 90% | 12.8oC & 90% | 11.7oC & 85% |
| High Photosynthetic Light (In Lux) | 32000 | 33000 | 33000 | 34000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 85% | 70% | 65% | 90% |
| Soil Temperature | Medium | low | Medium | Medium |
| Pest (pod borer ) | Pod borer | Pod borer | Pod borer | Pod borer |
| Disease (wilting,rust) | - | wilt | wilt | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | High | High | High |
| Fertilizers used per acre | Foliar spray of 13:00:45 @ 1% | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **29-Jan-2022 To 19-feb-2022** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 31.8oC & 48% | 30.4oC & 42% | 31.5oC & 38% |  |
| Cold Night | 11.3oC & 80.2% | 12.2oC & 84% | 13.2oC & 72% |  |
| High Photosynthetic Light (In Lux) | 33000 | 35000 | 35000 |  |
| Soil pH | 8.1 | 8.1 | 8.1 |  |
| Soil Moisture | 85% | 70% | 60% |  |
| Soil Temperature | low | low | low |  |
| Pest (pod borer) | Pod borer | - | - |  |
| Disease (rust) | - | - | - |  |
| Soil salinity | Alkaline | Alkaline | Alkaline |  |
| Method of irrigation | Flood | Flood | Flood |  |
| Drought risk for region | Medium | Medium | Medium |  |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - |  |
| Pesticides used per acre | - | - | - |  |
| Whether crop failed or not | NOT | NOT | NOT |  |

**Actual Yield – 9.0q/acre**

**Chickpea - 3**

1. **Crop :-** Chickpea
2. **Farm :-** KVK, Farm
3. **Crop Duration: -** 3. 5 Months
4. **Date of sowing :-** 11-11-2020
5. **Expected Yield: -** 10q/acre.
6. **Week wise factors affecting on crop growth & Yield** :-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **11-Nov-2020 To 08-Dec-2020** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 30.5oC & 50% | 32.5oC & 49% | 29.7oC & 62% | 30.5oC & 55% |
| Cold Night | 15.5oC & 82% | 20.2oC & 88% | 18.2oC & 80% | 12.1oC & 70% |
| High Photosynthetic Light (In Lux) | 35000 | 33000 | 33000 | 32000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 90% | 80% | 65% | 90% |
| Soil Temperature | medium | Medium | Medium | Medium |
| Pest (Nil) | - | - | - | - |
| Disease (wilting) | - | - | - | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | - | - | - | - |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **09-Dec-2020 To 05-Jan-2021** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 30.0oC & 66% | 30.1oC & 61% | 30.2oC & 60% | 29.4oC & 66% |
| Cold Night | 17.8oC & 75% | 12.5oC & 88% | 13.1oC & 81% | 17.2oC & 85% |
| High Photosynthetic Light (In Lux) | 30000 | 30000 | 32000 | 30000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 80% | 70% | 65% | 90% |
| Soil Temperature | Medium | Medium | Medium | Medium |
| Pest (nil) | Nil | Nil | Nil | Nil |
| Disease (wilting) | 20 % | - | - | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | Medium | Medium | Medium |
| Fertilizers used per acre | - | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **06-Jan-2021 To 02-Feb-2021** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 29.5oC & 72% | 31.5oC & 67% | 32.2oC & 52% | 30.2oC & 54% |
| Cold Night | 20.2oC & 90% | 16.2oC & 87% | 15.1oC & 88% | 15.1oC & 82% |
| High Photosynthetic Light (In Lux) | 32000 | 33000 | 33000 | 34000 |
| Soil pH | 8.2 | 8.2 | 8.2 | 8.2 |
| Soil Moisture | 85% | 70% | 65% | 90% |
| Soil Temperature | Medium | low | Medium | Medium |
| Pest (pod borer ) | Pod borer | Pod borer | Pod borer | Pod borer |
| Disease (wilting,rust) | - | rust | wilt | - |
| Soil salinity | Alkaline | Alkaline | Alkaline | Alkaline |
| Method of irrigation | Flood | Flood | Flood | Flood |
| Drought risk for region | Medium | High | High | High |
| Fertilizers used per acre | Foliar spray of 13:00:45 @ 1% | - | - | - |
| Pesticides used per acre | - | - | - | - |
| Whether crop failed or not | NOT | NOT | NOT | NOT |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **03-Feb-2021 To 23-feb-2021** | | | | |
| **Factor** | **Week 1st** | **Week 2nd** | **Week 3rd** | **Week 4th** |
| Rainfall | - | - | - | - |
| High Temperature & Low Humidity | 31.1oC & 42% | 32.2oC & 56% | 31.2oC & 58% |  |
| Cold Night | 11.3oC & 77% | 13.2oC & 74% | 14.4oC & 77% |  |
| High Photosynthetic Light (In Lux) | 33000 | 35000 | 35000 |  |
| Soil pH | 8.1 | 8.1 | 8.1 |  |
| Soil Moisture | 85% | 70% | 60% |  |
| Soil Temperature | low | low | low |  |
| Pest (pod borer) | Pod borer | - | - |  |
| Disease (rust) | - | - | - |  |
| Soil salinity | Alkaline | Alkaline | Alkaline |  |
| Method of irrigation | Flood | Flood | Flood |  |
| Drought risk for region | Medium | Medium | Medium |  |
| Fertilizers used per acre | 20:40:0 kg NPK | - | - |  |
| Pesticides used per acre | - | - | - |  |
| Whether crop failed or not | NOT | NOT | NOT |  |

**Actual Yield – 10.50q/acre**